

2. The method of Claim 1 wherein said trigonometric analysis of the required curvatures of the surfaces comprises analysis of a diagram of a graphical construction of the required curvatures of the surfaces and movements of said spinning cutter and said rotary table relative to the application of said spinning form cutter to the required curvatures of said root section of said turbine blade, said graphical construction consisting essentially of a trigonometric analysis, said root section comprising at least one holding hook.
3. The method of Claim 1 wherein said trigonometric analysis of the required curvatures of the surfaces and movements of said spinning cutter and said rotary table determines the path of said spinning form cutter as a curved convex radius of E plus R wherein E is the distance from center of rotary table to first holding hook and R is the radius on the first holding hook.
4. The method of Claim 1 wherein said trigonometric analysis of the required curvatures of the surfaces and movements of said spinning cutter and said rotary table determines the path of said spinning form cutter as a curved convex radius of E plus R wherein E + R of the convex radius is determined by points L, C, and A, L being the minimum distance P and distance M determined by angle $+Q^\circ$, the angle of rotation to the left, C being the minimum distance E determined by the angle 0° ; A being the minimum distance F and distance Y determined by angle $-Q^\circ$, the angle of rotation to the right; E being the distance from center of rotary table to first holding hook, and R the radius on the first holding hook.

ALO
end

IN THE ABSTRACT

12. The Abstract is herewith replaced on a separate page as shown in Appendix C.

REMARKS

The specification has been amended on page 1, line 24 to delete the term "a" to correct the terminology.

The specification has been amended on page 2, line 43, to insert the phrase "the root section of" after term "holds" to correct the statement to be consistent with FIGS 1 and 2 wherein the root section of the turbine blades is shown as held by the rotary table.

Applicant regrets the incorrect designation on page 2, line 43, of the turbine blades as being held by the rotating table whereas the object held is the root section of the turbine blades, as designated and stated in FIG 1. Applicant requests the correction be entered and that the correction does not constitute new matter.

The specification has been amended on page 2, line 44, to delete the term "pad" and insert therefore the term "path" to correct a typographical error.

The specification has been amended on page 3, lines 16, 37, and 38 to correct the misuse of the term "key." The term "key" as defined in the Van Nostrand's Scientific Encyclopedia, Fourth Edition, O. VanNostrand Company, Inc., Princeton, N.J., 1968, page 969,